

Date: Mon, 8 Nov 93 17:01:19 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1325
To: Info-Hams

Info-Hams Digest Mon, 8 Nov 93 Volume 93 : Issue 1325

Today's Topics:

 * SpaceNews 08-Nov-93 *
 20m dipole on 80m
 characteristic impedance
Daily Solar Geophysical Data Broadcast for 07 November
 GAP Eagle DX-VI Problems
 HDN Releases (2 msgs)
 License Datapoints
 MorseTrainer for Mac
 Observations on Kenwood TH-78
 Plectron moved to Imboden, Arkansas
 Rebuild NiCd battery for HT
 TS 430 as mobile

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 8 Nov 93 18:08:48 GMT
From: news-mail-gateway@ucsd.edu
Subject: * SpaceNews 08-Nov-93 *
To: info-hams@ucsd.edu

SB NEWS @ AMSAT \$SPC1108
* SpaceNews 08-Nov-93 *

BID: \$SPC1108

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SpaceNews
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MONDAY NOVEMBER 8, 1993

SpaceNews originates at KD2BD in Wall Township, New Jersey, USA. It is published every week and is made available for unlimited distribution.

* MARS OBSERVER NEWS *

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Paula Cleggett-Haleim
Headquarters, Washington, D.C.

October 22, 1993

MARS OBSERVER INVESTIGATION BOARD STATUS REPORT

The Mars Observer Investigation Board held its third set of meetings, Wednesday through Friday, October 20-22, in Washington, D.C.

Since the last set of board meetings, technical teams conducted reviews of specific Mars Observer subsystems at the Jet Propulsion Laboratory, Pasadena, California, and Martin Marietta Aerospace, East Windsor, New Jersey.

Plausible scenarios for what could have caused the loss of communication with the Mars Observer spacecraft are still being developed and technically challenged.

The board previously had recommended a program to attempt to activate the Balloon Relay Experiment, an instrument onboard Mars Observer. After several attempts to activate the experiment, ground station engineers did not detect any return signals. The NASA Deep Space Network stationed at Goldstone, California, and the Jodrell Bank Observatory, United Kingdom, were used. Non-activation of the Balloon Relay Experiment leads the board to conclude that a Mars Observer failure scenario involving only the spacecraft downlink portion of the telecommunications system is highly unlikely.

In the coming weeks, the board will evaluate results of hardware and software tests, and in some cases, computer simulations of various spacecraft subsystems.

Late November is still the target timeframe for delivering a final report to the NASA Administrator, who will make the report publicly available.

[Info via NASA]

★ STS-58 FAREWELL MESSAGE ★

=====

The following packet radio beacon from Space Shuttle Columbia was received by Dave, N6JLH in Northern California on 31-Oct-93:

W5RRR-1>SAREX <UI>:

This is STS-58 SAREX Robot station W5RRR-1
onboard the Space Shuttle Columbia.

W5RRR-1>QST <UI>:

73s from Columbia on our last day on orbit. We have a beautiful planet.
Thanks for participating in this mission with us.
The STS-58 Crew.

[Info via N6JLH]

★ TEXAS BALLOON LAUNCH ★

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The fifth flight of the North Texas Balloon Project will be on 13-Nov-93
at 08:30 CDT from a yet to be decided launch point south of Fort Worth,
Texas.

On board for this flight will be a cross band voice repeater with an uplink
on 445.800 MHz, and a downlink on 147.580 MHz. Also on board will be a GPS
satellite receiver linked to a packet transmitter. This will allow ground
stations to 'see' where and how high the payload is. The packet telemetry
downlink will be on 144.290 MHz, and ground stations may also digipeat
through this beacon using an uplink frequency of 145.890 MHz. The callsign
for the digipeater is W5SJZ-6.

A launch net will be conducted on 7155 KHz starting about 60 minutes or so
prior to launch. A local net will be conducted on 146.760 MHz for those in
the Fort Worth, Texas area. Net Control callsign will be W5SJZ (Lockheed
Amateur Radio Club)

Reception reports are welcomed. Please contact the mission coordinators on
the HF or VHF nets. QSL cards will be available for all who send in
accurate reception reports on the high altitude balloon payload.

Questions regarding this mission should be directed to:

Ed, N5PQR @ N5AUX.#DFW.TX.USA.NOAM.

[Info via N5PQR]

* OSCAR-13 NEWS *

=====

*** AO-13 TRANSPONDER SCHEDULE *** 1993 Oct 25-Nov 15

Mode-B : MA 0 to MA 130 !

Mode-BS : MA 130 to MA 180 !

Mode-S : MA 180 to MA 205 !<- S transponder; B trsp. is OFF

Mode-S : MA 205 to MA 210 !<- S beacon only

Mode-BS : MA 210 to MA 226 ! Alon/Alat 210/0

Omnis : MA 240 to MA 80 ! Move to attitude 240/0, Nov 15

Please don't uplink to B, MA 180-205. Interferes with mode S.

*** AO-13 TRANSPONDER SCHEDULE *** 1993 Nov 15-Jan 31

Mode-B : MA 0 to MA 95 ! / Eclipses, max

Mode-B : MA 95 to MA 180 ! OFF Dec 07 - 24. < duration 136

Mode-B : MA 180 to MA 220 ! \ minutes.

Mode-S : MA 220 to MA 230 !<- S transponder; B trsp. is OFF

Mode-BS : MA 230 to MA 226 ! Alon/Alat 240/0

Omnis : MA 250 to MA 150 ! Move to attitude 180/0, Jan 31

Please don't uplink to B, MA 220-230. Interferes with mode S.

[Info via G3RUH]

* THANKS! *

=====

Thanks to all those who sent messages of appreciation regarding SpaceNews,
especially:

IW1CXZ

VU2LBW

K3GLK

N4TYS

AA6TA

* FEEDBACK/INPUT WELCOMED *

=====

Mail to SpaceNews should be directed to the editor (John, KD2BD) via any
of the following paths:

FAX : 1-908-747-7107

PACKET : KD2BD @ N2KZH.NJ.USA.NA

INTERNET : kd2bd@ka2qhd.ocpt.ccur.com -or- kd2bd@amsat.org

MAIL : John A. Magliacane, KD2BD

Department of Engineering and Technology

Advanced Technology Center

Brookdale Community College

Lincroft, New Jersey 07738

U.S.A.

<<=- SpaceNews: The first amateur newsletter read in space! -=>>

/EX

--

John A. Magliacane, KD2BD * /\ * Voice : 1-908-224-2948
Advanced Technology Center |/\| Packet : KD2BD @ N2KZH.NJ.USA.NA
Brookdale Community College |/\| Internet: kd2bd@ka2qhd.ocpt.ccur.com
Lincroft, NJ 07738 * /\ * Morse : -. -.. ..--- -... -..

Date: 9 Nov 93 00:54:55 GMT
From: news-mail-gateway@ucsd.edu
Subject: 20m dipole on 80m
To: info-hams@ucsd.edu

Text item: Text_1

>I'm running an HW-101 with an MFJ 941-D tuner into a 20m dipole.
>...but I get good results on 80m (low SWR, 100w forward, 1-5 w reflected
>David J Adams, N9UXU Internet: djadams@silver.ucs.indiana.edu

David, ELNEC (antenna analysis program) says that your 20m dipole has a radiation impedance of around 1-j2000 on 80m. That means an antenna-end SWR of greater than 100/1 on whatever transmission line you are using. The 40m impedance is a little better at 12-j1000.

Almost none of your power is making it to the antenna. The obvious solution is a longer antenna. If you absolutely cannot put up a longer antenna, you can disconnect your transmission line at the transmitter end, short the two conductors together, and feed it as a single-ended "long-wire" on 80m using the "wire" output on your MFJ-941.

73, Cecil, kg7bk@indirect.com
(I do not speak for Intel on Internet)

Date: 8 Nov 93 23:05:05 GMT
From: ogicse!hp-cv!hp-pcd!hpcvsnz!tomb@network.ucsd.edu
Subject: characteristic impedance
To: info-hams@ucsd.edu

Gary Coffman (gary@ke4zv.atl.ga.us) wrote:

: Measure the SWR of the line with the far end unterminated. This will

: let you calculate line loss. This'll work even if your meter is of a
: different characteristic impedance since infinity to 1 is still infinity
: to 1 no matter what small difference there may be in the 1. Now terminate
: the line in a known impedance. Measure the SWR and calculate what the line
: impedance should be to give that reading. Now correct that for the difference,
: if any, caused by your meter's impedance. That's your cable impedance.

Hmmm... Let's say I have a length of RG-62 (but don't know that's what it is), and it has an attenuation of about 5dB. If the length (in wavelengths) is right (odd number of 1/4 waves), that should give you pretty close to 1:1 SWR as measured with a 50 ohm SWR bridge. But a bit different electrical length (even number of 1/4 waves) could give you a 4:1 SWR, for the same attenuation. So I don't see how the first three sentences above work out...

BTW, this is the sort of thing I was thinking of when I posted a followup a few weeks ago suggesting that if you want to measure some line parameter (it was loss at that time), you should be careful to calibrate your measurements--to check them against some known values. I'll repeat it here: the loss, or the impedance, or the electrical length, isn't what's stamped on the line, or what's in a book, or what you measure: it is what it is. Any of the others is only an approximation. Measurements can come very close, but they can also be very far off if you happen to make an error in the application of the instruments you use or if the instruments are out of calibration. By using proper standards and procedures, you can minimize the measurement error, and probably get the best approximations through measurement.

As others have pointed out in a bit different context, you can do a lot toward checking the accuracy of a line measurement if you do the measurement over a range of frequencies. If the parameters you are trying to measure don't vary like you'd expect (and your expectations are right ;-), then suspect the measurement.

Date: 9 Nov 93 00:36:03 GMT
From: news-mail-gateway@ucsd.edu
Subject: Daily Solar Geophysical Data Broadcast for 07 November
To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 311, 11/07/93
10.7 FLUX=095 90-AVG=094 SSN=044 BKI=4243 3334 BAI=018
BGND-XRAY=A7.8 FLU1=3.1E+06 FLU10=1.2E+04 PKI=4243 3334 PAI=019
BOU-DEV=058,018,053,025,027,027,023,056 DEV-AVG=035 NT SWF=00:000
XRAY-MAX= B1.6 @ 2256UT XRAY-MIN= A5.6 @ 1603UT XRAY-AVG= A9.1
NEUTN-MAX= +002% @ 2115UT NEUTN-MIN= -002% @ 1840UT NEUTN-AVG= -0.0%
PCA-MAX= +0.1DB @ 1210UT PCA-MIN= -0.5DB @ 1420UT PCA-AVG= -0.0DB
BOUTF-MAX=55371NT @ 2333UT BOUTF-MIN=55335NT @ 1546UT BOUTF-AVG=55351NT

GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+065,+000,+000
GOES6-MAX=P:+118NT@ 1804UT GOES6-MIN=N:-072NT@ 1045UT G6-AVG=+086,+018,-042
FLUXFCST=STD:095,095,095;SESC:095,095,095 BAI/PAI-FCST=015,010,005/015,012,010
KFCST=1115 5111 0004 4000 27DAY-AP=022,015 27DAY-KP=4444 4424 4443 3322
WARNINGS=
ALERTS=**245STRM:0000-2359UTC
!!END-DATA!!

NOTE: The Effective Sunspot Number for 06 NOV 93 was 34.0.
The Full Kp Indices for 06 NOV 93 are: 4- 3- 5- 5o 4+ 4- 3+ 4o

Date: 8 Nov 93 01:56:43 GMT
From: psinntp!gdc!esun223!kurdzo@uunet.uu.net
Subject: GAP Eagle DX-VI Problems
To: info-hams@ucsd.edu

Recently I purchased a GAP Eagle DX-VI vertical HF antenna. The 10, 12, and 15 meter bands give very good SWR readings. However, I'm having problems with 17, 20, and 40. All three bands have unacceptably high SWR readings. On 40, the GAP seems to resonate up near the top of the band (rather than in the middle). On 20 and 17, the SWR doesn't seem to vary much with frequency.

I have called the guys at GAP three times now. They have given me many suggestions, but none of them have worked. I've tried the antenna on the ground as well as on my roof. I've tried 3 different types (and lengths) of coax. The antenna appears to work better on the ground, by the way. There are no large metal objects nearby. They keep telling me "If it's assembled correctly, and nothing nearby is coupling to it, it will work".

Has anyone else out there bought one of these and got it to work? Does anyone know the theory behind this antenna? There is a capacitor at the top of the antenna. The guy at GAP said this cap could be changed to change the center of 40m coverage. Has anyone else had to do this?

Please share any of your GAP experiences (good OR bad) with me.

Thanks,

--

Jim Kurdzo AA1GZ
General DataComm
Middlebury, CT 06762-1299
(203) 574-1118 x6443

kurdzo@gdc.com

Date: Sat, 06 Nov 1993 12:43:05
From: concert!news-feed-1.peachnet.edu!darwin.sura.net!math.ohio-state.edu!
sol.ctr.columbia.edu!news.kei.com!news.oc.com!utacfd.uta.edu!rwsys!ocitor!
FredGate@decwrl.dec.com
Subject: HDN Releases
To: info-hams@ucsd.edu

The following files were processed Saturday 11-06-93:

HAMNEWS [HAM: Bulletins and Newsletters]

ANART782.LZH (4739 bytes) ANART Bulletin 782 10/24/93
ANART783.LZH (4692 bytes) ANART Bulletin 793 10/31/93
ARLB108.LZH (578 bytes) ARRL Bulletin 11/02/93
ARLB109.LZH (1012 bytes) ARRL Bulletin 11/04/93
ARLD058.LZH (1698 bytes) ARRL DX Bulletin 11/04/93
ARLP044.LZH (986 bytes) ARRL Propagation Bulletin 11/05/93
OPDX133.LZH (2831 bytes) Ohio-Pa Packet Cluster DX Bulletin
11/01/93
RACES298.LZH (980 bytes) RACES Bulletin # 298 11/01/93

17516 bytes in 8 file(s)

HAMSAT [HAM: Satellite tracking and finding programs]

AMSAT303.LZH (3632 bytes) AMSAT Bulletin # 303 10/30/93
ARLK045.LZH (2009 bytes) ARRL Keps 10/30/93
OBS301.LZH (5516 bytes) Amsat Orbital Elements # 301
10/282/93

11157 bytes in 3 file(s)

HAMSWL [HAM: Shortwave broadcast schedule distribution]

SCDX2190.LZH (6260 bytes) Sweden Calling DX #2190 11/02/93

6260 bytes in 1 file(s)

Total of 34933 bytes in 12 file(s)

Files are available via Anonymous-FTP from ftp.fidonet.org
IP NET address 140.98.2.1

Directories are:

```
pub/fidonet/ham/hamnews (Bulletins)
                        /hamant (Antennas)
                        /hamsat (Sat. prg/Amsat Bulletins)
                        /hampack (Packet)
                        /hamelec (Formulas)
                        /hamtrain (Training Material)
                        /hamlog (Logging Programs)
                        /hamcomm (APLink/JvFax/Rtty/etc)
                        /hammods (Equip modification)
                        /hamswl (SWBC Skeds/Frequencies)
                        /hamscan (Scanner Frequencies)
                        /hamutil (Operating aids/utils)
                        /hamsrc (Source code to programs)
                        /hamdemo (Demos of new ham software)
                        /hamnos (TCP/IP and NOS related software)
```

Files may be downloaded via land-line at (214) 226-1181 or (214) 226-1182.
1.2 to 16.8K, 23 hours a day .

When ask for Full Name, enter: Guest;guest <return>

lee - wa5eha
Ham Distribution Net

* Origin: Ham Distribution Net Coordinator / Node 1 (1:124/7009)

Date: Sun, 07 Nov 1993 21:22:07
From: haven.umd.edu!news.umbc.edu!eff!news.kei.com!news.oc.com!utacfd.uta.edu!
rwsys!ocitor!FredGate@uunet.uu.net
Subject: HDN Releases
To: info-hams@ucsd.edu

The following files were processed Sunday 11-07-93:

HAMDEMO [HAM: Amateur/Scanner/Shortwave Software Demo Progs]

SUD.EXE (61824 bytes) Satelllite Positioning Program V1.10

61824 bytes in 1 file(s)

HAMLOG [HAM: Amateur radio logging programs]

FDDCL201.ARJ (93647 bytes) Field Day Log/Dupe Checker by
Kevin Myers
NONEH.ZIP (126361 bytes) Field Day Program by Jim Cambron,
NONEH

220008 bytes in 2 file(s)

HAMNEWS [HAM: Bulletins and Newsletters]

PART97.ZIP (34668 bytes) FCC Rules & Regulations Part 97

34668 bytes in 1 file(s)

HAMPACK [HAM: Packet Communications programs]

TOR302.EXE (186496 bytes) PacTor V3.02 by Johan Forrer, KC7WW

186496 bytes in 1 file(s)

HAMUTIL [HAM: Radio operating aids]

HCALL100.ZIP (9522 bytes) Callsign Server Interface for
PCBoard V15.0<->Sam Database, by WD
0GRC

9522 bytes in 1 file(s)

Total of 512518 bytes in 6 file(s)

Files are available via Anonymous-FTP from <ftp.fidonet.org>
IP NET address 140.98.2.1

Directories are:

pub/fidonet/ham/hamnews (Bulletins)
/hamant (Antennas)
/hamsat (Sat. prg/Amsat Bulletins)
/hampack (Packet)
/hamelec (Formulas)
/hamtrain (Training Material)
/hamlog (Logging Programs)
/hamcomm (APLink/JvFax/Rtty/etc)
/hammods (Equip modification)
/hamswl (SWBC Skeds/Frequencies)
/hamscan (Scanner Frequencies)
/hamutil (Operating aids/utils)
/hamsrc (Source code to programs)
/hamdemo (Demos of new ham software)
/hamnos (TCP/IP and NOS related software)

Files may be downloaded via land-line at (214) 226-1181 or (214) 226-1182.
1.2 to 16.8K, 23 hours a day .

When ask for Full Name, enter: Guest;guest <return>

lee - wa5eha
Ham Distribution Net

* Origin: Ham Distribution Net Coordinator / Node 1 (1:124/7009)

Date: 8 Nov 93 21:00:03 GMT
From: ogicse!hp-cv!hp-pcd!hpcvsnz!davidc@network.ucsd.edu
Subject: License Datapoints
To: info-hams@ucsd.edu

My wife just passed her exams for a technician amateur license on Nov 5.
How long did it take for those of you who have received new licenses lately
to receive them from the date you took your exam? I have not seen any data
points posted recently.

73

Dave, KB7QCL

Date: 8 Nov 1993 11:02:31 GMT
From: agate!howland.reston.ans.net!pipex!sunic!news.lth.se!pomona.tde.lth.se!
sund@ames.arpa

Subject: MorseTrainer for Mac
To: info-hams@ucsd.edu

>And where does one get an executeable version of Stuffit Expander.??
>
>Erich
>N30XM

Try ftp to sumex-aim.stanford.edu. Look in the compression/ directory.

>>>
Lars Sundstrom, Lund University, Dept.of Applied Electronics

P.O. Box 118, S-221 00 LUND, SWEDEN. EMail: sund@tde.lth.se
Phone: Int+ 46 46 10 95 13 Fax: Int+ 46 46 12 99 48

Date: Mon, 8 Nov 1993 15:02:03 GMT
From: sdd.hp.com!swrinde!gatech!howland.reston.ans.net!torn!news.ccs.queensu.ca!
venus!pas@decwrl.dec.com
Subject: Observations on Kenwood TH-78
To: info-hams@ucsd.edu

In article <9311071052593.gilbaronw0mn.DLITE@delphi.com>, gilbaronw0mn@delphi.com
(Gilbert Baron) writes:

|> >What about the Yaesu FT-530. Whould that be a comparable rig? Better? or
|> >Worse? Has anyone used the FT-530. Can it be modified? Does the rx range
|> >go below 130 MHz.
|>
|> I have a 530 and it does receive the aircraft band. There are to things to
|> think about though. The sensitivity in the aircraft band is abysmal and it
|> does require a mod to do that. If you can't unsolder a pad that is only a
|> little bigger than a period on a line of text then be prepared to pay over
|> 100 dollars (they were charging 160 for all dual bands at the recent hamfest
|> in Minneapolis) to have it done for you. That is a rip off and I beleive
|> that Yaesu should be soundly ripped for not shipping the radio with at least
|> the wide band recieve enabled. The advertising is EXTREMELY misleading on
|> that.

When I bought my FT530, I negotiated the mod in with the
price and got it effectively for \$10. Whoever is charging
over \$100 is ripping people off. The mod is very simple;
I just had the store do it so that warranty coverage would
not be affected (the store is a Yaesu service center).

Peter

Peter A. Stokes _____ Voice & Voice mail: (613) 545-2923
Engineering Applications Support _____ FAX: (613) 548-8104
Canadian Microelectronics Corporation _____ Net: pas@jupiter.ic.cmc.ca
Kingston, Ontario, CANADA _____ Radio: VE3ZXT

Date: Mon, 8 Nov 1993 13:52:01 GMT
From: nmt.edu!mimbres.cs.unm.edu!moe.ksu.ksu.edu!vixen.cso.uiuc.edu!uwm.edu!linac!
att!cbnewse!parnass@network.ucsd.edu
Subject: Plectron moved to Imboden, Arkansas
To: info-hams@ucsd.edu

To those trying to help find Plectron:

Thanks for your assistance.

I found Plectron by calling Ellen Payne, Associate Editor
of Mobile Radio Technology magazine. Plectron's new
address is:

Plectron
Plectron Place
P.O. Box 960
Imboden, Arkansas 72434

telephone 1-(501)869-2877

They still sell monitor receivers, so I sent for product
literature. Parts and manuals for their older monitor
receivers are also available.

--

=====
Copyright 1993, Bob Parnass, AJ9S
AT&T Bell Laboratories - parnass@ih4gp.att.com - (708)979-5414

Date: 8 Nov 93 20:10:02 GMT
From: ogicse!hp-cv!hp-pcd!hpcvsnz!tomb@network.ucsd.edu
Subject: Rebuild NiCd battery for HT
To: info-hams@ucsd.edu

Jessica Jook (jjook@fraser.sfu.ca) (maybe that was Dominic??) wrote:

: Does any one has experience to rebuild the NiCd battery pack for
: hand held radio. I would like to make one. Can someone tell me

: where they can buy good NiCd battery cells and what kind of epoxy
: to seal the battery pack. Also, any special things you want to
: remind me, please do so.

Be a little careful trying to replace single cells. The new one is not likely to be well matched with the old ones, particularly if the old ones have been in service a while. Also, there's a question about the cell design: if you look in a DigiKey catalog, you will see quite a number of different types of cell, all the same physical size. (rapid charge, high capacity, high rate of discharge, ...)

If you look in the back pages of QST or CQ, you will find ads from battery places like WW Associates (and two or three others) for replacement battery packs, both complete packs and the "inserts." An "insert" is simply the set of nicads all wired up and packaged in the proper physical configuration. On the Icom pack I've worked on, there were screws to remove to take the pack apart; replacing the insert was straightforward, and no glue was required. I'd expect on almost all packs to find screws or plastic snaps holding it together.

Date: Fri, 05 Nov 1993 12:19:46 GMT
From: haven.umd.edu!news.umbc.edu!europa.eng.gtefsd.com!news.ans.net!
malgudi.oar.net!witch!ame!psl@ames.arpa
Subject: TS 430 as mobile
To: info-hams@ucsd.edu

Clark -

In article <9311021150.aa25098@paris.ics.uci.edu>, Clark Savage Turner WA3JPG (turner@safety.ICS.UCI.EDU) writes:

>Hello:

>

>I just managed to snag the good deal on the TS 430 over on rec.radio.swap
>and wondered about the 430 as a mobile rig. I have not used one.

>

>How sensitive is the final to SWR? How effective is the noise blanker?

One at a time! The finals have SWR shutdown protection which does a good job of protecting the finals. They begin to shutdown, I believe, at 2.5:1 SWR. Note, you still have output, just less. The noise blanker isn't the best on the market, but it does a good job. Make sure that your radio has the mod for the noise blanker. You can download this mod from the Kenwood BBS at 1-310-761-8284.

>Does the 430 need an external speaker?

No, but depending on where you mount the radio, you might want one anyway.

>How useful is the mobile mounting bracket?

Very! It is a solid way of mounting your radio.

>

>I will probably mount it in

>my new (old) VW van which I want to make into a fine radio-mobile :-).

>

>Any hints and suggestions appreciated.

>

>Clark

>WA3JPG

>

Good Luck and Have Fun. I have used my 430 for 8 years, some mobile, some at home, and I really like the radio. It has a couple of anomalies, but nothing that precludes it from being one of the best mobile rigs out there.

73,

Pete WB0FEW

End of Info-Hams Digest V93 #1325
